

## SEQUENCE LISTING

<110> XXXINVENTORS

<120> ANTI-NIK ANTIBODIES AND USES THEREOF

<130> 25831

<160> 22

<170> PatentIn version 3.2

<210> 1

<211> 17

<212> PRT

<213> Artificial sequence

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<223> Synthetic peptide

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Asp Val Ile Thr Lys Gly Thr Ala Lys Glu Gly Ser Glu Ala Gly Pro  
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Ala

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Cys Glu Asn Ser Gln Glu Phe Ser Pro Thr Phe Ser Glu Arg  
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Lys Gly Lys Arg Arg Ser Lys Ala Arg Lys Lys Arg Lys Lys Lys Ser  
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Glu Gly Leu Arg Pro Ala Leu Pro Arg Ser Glu Leu His Lys  
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Arg Gly Ser Arg Ser Arg Glu Pro Ser Pro Lys Thr Glu Asp Asn Glu  
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Lys Leu Lys Pro Val Asp Tyr Glu Tyr Arg Glu Glu Val His  
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Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg Met Glu Asp Lys  
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Ala Val Lys Lys Val Arg Leu Glu Val Phe Arg Ala Glu Glu Leu  
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Arg Arg Ile Leu His Gly Asp Val Lys Ala Asp Asn Val Leu Leu  
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<210> 10  
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&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 10

Ile Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro  
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&lt;210&gt; 11

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 11

Arg Lys Glu Pro Ile His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys  
1 5 10 15

&lt;210&gt; 12

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 12

Arg Gly Glu Tyr Lys Glu Pro Arg His Pro Pro Pro Asn Gln Ala Asn  
1 5 10 15

&lt;210&gt; 13

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 13

Arg Ala Pro Gly Pro Arg Pro Ala Glu Glu Thr Thr Gly Arg Ala Pro Lys  
1 5 10 15

&lt;210&gt; 14

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 14

Glu Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu Glu  
1 5 10 15

&lt;210&gt; 15

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 15

Pro Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu  
1 5 10 15

&lt;210&gt; 16

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

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&lt;223&gt; Synthetic peptide

&lt;400&gt; 16

Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser  
1 5 10 15

&lt;210&gt; 17

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 17

Asp Asp Ser Glu Lys Asn Pro Ser Lys Ala Ser Gln Ser Ser Arg Asp  
1 5 10 15

&lt;210&gt; 18

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 18

Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala Arg Gly Arg Pro  
1 5 10 15

&lt;210&gt; 19

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 19

Glu His Leu His Ile Arg Glu Phe His Arg Val Lys Val Gly Asp  
1 5 10 15

&lt;210&gt; 20

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Synthetic peptide

&lt;400&gt; 20

Lys Asp Gly Gln Pro Val Arg Tyr Asp Met Glu Val Pro Asp  
1 5 10

<210> 21  
<211> 947  
<212> PRT  
<213> Homo sapiens

<400> 21

Met Ala Val Met Glu Met Ala Cys Pro Gly Ala Pro Gly Ser Ala Val  
1 5 10 15

Gly Gln Gln Lys Glu Leu Pro Lys Pro Lys Glu Lys Thr Pro Pro Leu  
20 25 30

Gly Lys Lys Gln Ser Ser Val Tyr Lys Leu Glu Ala Val Glu Lys Ser  
35 40 45

Pro Val Phe Cys Gly Lys Trp Glu Ile Leu Asn Asp Val Ile Thr Lys  
50 55 60

Gly Thr Ala Lys Glu Gly Ser Glu Ala Gly Pro Ala Ala Ile Ser Ile  
65 70 75 80

Ile Ala Gln Ala Glu Cys Glu Asn Ser Gln Glu Phe Ser Pro Thr Phe  
85 90 95

Ser Glu Arg Ile Phe Ile Ala Gly Ser Lys Gln Tyr Ser Gln Ser Glu  
100 105 110

Ser Leu Asp Gln Ile Pro Asn Asn Val Ala His Ala Thr Glu Gly Lys  
115 120 125

Met Ala Arg Val Cys Trp Lys Gly Lys Arg Arg Ser Lys Ala Arg Lys  
130 135 140

Lys Arg Lys Lys Lys Ser Ser Lys Ser Leu Ala His Ala Gly Val Ala  
145 150 155 160

Leu Ala Lys Pro Leu Pro Arg Thr Pro Glu Gln Glu Ser Cys Thr Ile  
165 170 175

Pro Val Gln Glu Asp Glu Ser Pro Leu Gly Ala Pro Tyr Val Arg Asn  
180 185 190

Thr Pro Gln Phe Thr Lys Pro Leu Lys Glu Pro Gly Leu Gly Gln Leu  
195 200 205

Cys Phe Lys Gln Leu Gly Glu Gly Leu Arg Pro Ala Leu Pro Arg Ser  
210 215 220

Glu Leu His Lys Leu Ile Ser Pro Leu Gln Cys Leu Asn His Val Trp  
225 230 235 240

Lys Leu His His Pro Gln Asp Gly Gly Pro Leu Pro Leu Pro Thr His  
245 250 255

Pro Phe Pro Tyr Ser Arg Leu Pro His Pro Phe Pro Phe His Pro Leu  
 260 265 270  
 Gln Pro Trp Lys Pro His Pro Leu Glu Ser Phe Leu Gly Lys Leu Ala  
 275 280 285  
 Cys Val Asp Ser Gln Lys Pro Leu Pro Asp Pro His Leu Ser Lys Leu  
 290 295 300  
 Ala Cys Val Asp Ser Pro Lys Pro Leu Pro Gly Pro His Leu Glu Pro  
 305 310 315 320  
 Ser Cys Leu Ser Arg Gly Ala His Glu Lys Phe Ser Val Glu Glu Tyr  
 325 330 335  
 Leu Val His Ala Leu Gln Gly Ser Val Ser Ser Ser Gln Ala His Ser  
 340 345 350  
 Leu Thr Ser Leu Ala Lys Thr Trp Ala Ala Arg Gly Ser Arg Ser Arg  
 355 360 365  
 Glu Pro Ser Pro Lys Thr Glu Asp Asn Glu Gly Val Leu Leu Thr Glu  
 370 375 380  
 Lys Leu Lys Pro Val Asp Tyr Glu Tyr Arg Glu Glu Val His Trp Ala  
 385 390 395 400  
 Thr His Gln Leu Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg  
 405 410 415  
 Met Glu Asp Lys Gln Thr Gly Phe Gln Cys Ala Val Lys Lys Val Arg  
 420 425 430  
 Leu Glu Val Phe Arg Ala Glu Glu Leu Met Ala Cys Ala Gly Leu Thr  
 435 440 445  
 Ser Pro Arg Ile Val Pro Leu Tyr Gly Ala Val Arg Glu Gly Pro Trp  
 450 455 460  
 Val Asn Ile Phe Met Glu Leu Leu Glu Gly Gly Ser Leu Gly Gln Leu  
 465 470 475 480  
 Val Lys Glu Gln Gly Cys Leu Pro Glu Asp Arg Ala Leu Tyr Tyr Leu  
 485 490 495  
 Gly Gln Ala Leu Glu Gly Leu Glu Tyr Leu His Ser Arg Arg Ile Leu  
 500 505 510  
 His Gly Asp Val Lys Ala Asp Asn Val Leu Leu Ser Ser Asp Gly Ser  
 515 520 525  
 His Ala Ala Leu Cys Asp Phe Gly His Ala Val Cys Leu Gln Pro Asp  
 530 535 540

Gly Leu Gly Lys Ser Leu Leu Thr Gly Asp Tyr Ile Pro Gly Thr Glu  
545 550 555 560

Thr His Met Ala Pro Glu Val Val Leu Gly Arg Ser Cys Asp Ala Lys  
565 570 575

Val Asp Val Trp Ser Ser Cys Cys Met Met Leu His Met Leu Asn Gly  
580 585 590

Cys His Pro Trp Thr Gln Phe Phe Arg Gly Pro Leu Cys Leu Lys Ile  
595 600 605

Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro Pro Ser Cys Ala Pro  
610 615 620

Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile His  
625 630 635 640

Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu Gln  
645 650 655

Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu Pro  
660 665 670

Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His Ala  
675 680 685

Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala Glu  
690 695 700

Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro Glu  
705 710 715 720

Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu Glu  
725 730 735

Ser Gly Met Trp Glu Pro Leu Pro Leu Ser Ser Leu Glu Pro Ala Pro  
740 745 750

Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu Gln  
755 760 765

Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser Gln  
770 775 780

Pro Phe Ser Leu Glu Glu Gln Glu Gln Ile Leu Ser Cys Leu Ser Ile  
785 790 795 800

Asp Ser Leu Ser Leu Ser Asp Asp Ser Glu Lys Asn Pro Ser Lys Ala  
805 810 815

Ser Gln Ser Ser Arg Asp Thr Leu Ser Ser Gly Val His Ser Trp Ser  
820 825 830

Ser Gln Ala Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala Arg  
835 840 845

Gly Arg Pro Thr Asp Thr Pro Ser Tyr Phe Asn Gly Val Lys Val Gln  
850 855 860

Ile Gln Ser Leu Asn Gly Glu His Leu His Ile Arg Glu Phe His Arg  
865 870 875 880

Val Lys Val Gly Asp Ile Ala Thr Gly Ile Ser Ser Gln Ile Pro Ala  
885 890 895

Ala Ala Phe Ser Leu Val Thr Lys Asp Gly Gln Pro Val Arg Tyr Asp  
900 905 910

Met Glu Val Pro Asp Ser Gly Ile Asp Leu Gln Cys Thr Leu Ala Pro  
915 920 925

Asp Gly Ser Phe Ala Trp Ser Trp Arg Val Lys His Gly Gln Leu Glu  
930 935 940

Asn Arg Pro  
945

<210> 22

<211> 280

<212> PRT

<213> Artificial sequence

<220>

<223> Recombinant polypeptide corresponding to a.a. 401-681 of the human NIK sequence

<400> 22

Thr His Gln Leu Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg  
1 5 10 15

Met Glu Asp Lys Gln Thr Gly Phe Gln Cys Ala Val Lys Lys Val Arg  
20 25 30

Leu Glu Val Phe Arg Ala Glu Glu Leu Met Ala Cys Ala Gly Leu Thr  
35 40 45

Ser Pro Arg Ile Val Pro Leu Tyr Gly Ala Val Arg Glu Gly Pro Trp  
50 55 60

Val Asn Ile Phe Met Glu Leu Leu Glu Gly Gly Ser Leu Gly Gln Leu  
65 70 75 80

Val Lys Glu Gln Gly Cys Leu Pro Glu Asp Arg Ala Leu Tyr Tyr Leu  
85 90 95

Gly Gln Ala Leu Glu Gly Leu Glu Tyr Leu His Ser Arg Arg Ile Leu  
100 105 110

His Gly Asp Val Lys Ala Asp Asn Val Leu Leu Ser Ser Asp Gly Ser  
115 120 125



His Ala Ala Leu Cys Asp Phe Gly His Ala Val Cys Leu Gln Pro Asp  
130 135 140

Gly Leu Gly Lys Ser Leu Leu Thr Gly Asp Tyr Ile Pro Gly Thr Glu  
145 150 155 160

Thr His Met Ala Pro Glu Val Val Leu Gly Arg Ser Cys Asp Ala Lys  
165 170 175

Val Asp Val Trp Ser Ser Cys Cys Met Met Leu His Met Leu Asn Gly  
180 185 190

Cys His Pro Trp Thr Gln Phe Phe Arg Gly Pro Leu Cys Leu Lys Ile  
195 200 205

Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro Pro Ser Cys Ala Pro  
210 215 220

Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile His  
225 230 235 240

Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu Gln  
245 250 255

Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu Pro  
260 265 270

Arg His Pro Pro Pro Asn Gln Ala Asn  
275 280

a specific portion of the amino acid sequence is provided.